

RESILIENT RHODY AN ACTIONABLE VISION FOR ADDRESSING THE

AN ACTIONABLE VISION FOR ADDRESSING THE IMPACTS OF CLIMATE CHANGE IN RHODE ISLAND



Resilient Rhody Overview



RESILIENCE THEME:
Natural Systems



RESILIENCE THEME:

Community Health
and Resilience



RESILIENCE THEME:
Emergency Preparedness



RESILIENCE THEME:
Critical Infrastructure
and Utilities

Resilient Rhody Outcomes:

- Established key climate resilience focus areas to drive implementation
- Identified 61 cross-agency actions and goals
- Recognized need to support municipalities in driving local and state resilience

Resilient Rhody Implementation

- \$20 million in new funding for climate resilience projects has been secured since Resilient Rhody release in 2018
- Established a leadership team of state agency "Resilience Coordinators" to drive implementation
- 20 municipalities are participating in the Municipal Resilience Program
- Increased municipal capacity through a "Regional Resilience Coordinator" pilot on Aquidneck Island





Resilient Rhody – Progress Assessment



Sample page from report

RESILIENT RHODY IMPACT ASSESSMENT



RESILIENT RHODY IMPACT ASSESSMENT

Critical Infrastructure

- Planning and designing for resilient wastewater and drinking water treatment facilities
 - RIDEM implementing its *Implications of Climate Change* for RI Wastewater Collection & Treatment Infrastructure report
- CRMC Coastal Hazard Application Process
 - Applicant notification of hazards during permitting
- Establishment of OER Microgrid Program
- RIPTA Zero Emissions Vehicle Program
 - Facilitating the purchase of 14 new battery-electric busses
- RIDOT Road-Stream Crossing Design Manual
 - Establishes climate change and resiliency criteria and standards focused on the design of safer, cost-effective stream crossings



Woonsocket Drinking Water Plant opening



Natural Systems

RIDEM has helped preserve 1,424 acres since strategy release

- Awarded \$8.55 million in grants to municipalities, land trusts, and non-profits for land conservation
- CRMC established the Shoreline Adaptation Inventory and Design Program
 - Launched in 2019, CRMC and its partners are inventorying potential sites and designing new shoreline adaptation projects that yield natural systems benefits
- Passage of the Forest Conservation Act
 - Establishes a Forest Conservation Commission to inventory the state's forestland, develop stronger tools and incentives for forest conservation, expand urban and community forestry, and grow the state's forest products industry



Walker Farm, Barrington



Emergency Preparedness

Statewide evacuation route reassessment

- Local emergency managers completed a reassessment of evacuation routes in August 2021 to ensure the routes and signage accurately reflect changes to the road network
- 39 of 39 municipalities have Hazard Mitigation Plans approved or currently in approval process
 - RIEMA is working with all municipalities to ensure compliance with Hazard Mitigation Plans
- Small Business Risk Reduction Project
 - Division of Statewide Planning used \$375,000 in U.S.
 Department of Housing and Urban Development (HUD)
 Disaster Relief Funds to identify areas most impacted by extreme weather events and assess how well local small businesses are prepared for extreme storm impacts





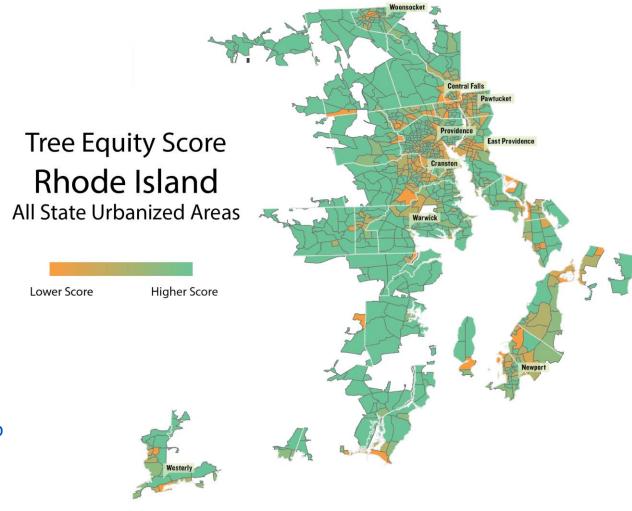
Community Health and Resilience

Urban Forests for Climate and Health Program

- The state received a \$650,000 grant to develop a first-inthe-nation mapping methodology for Tree Equity
- The Pawtucket and Central Falls Health Equity Zone received a \$100,000 Tree Planting grant in 2021
- RIDOH Health Equity Zones integrated climate change resilience into community assessments
 - RIDOH Climate Change and Health Program worked with the Newport, Olneyville, and Pawtucket Central Falls Health Equity Zones to complete community assessments focused on climate change resilience

Rhode Island Heat Watch Program

 RIDOH and RIDEM collaborated on this mapping project to measure daytime and nighttime ambient air temperature and humidity levels across Central Falls, East Providence, Pawtucket, and Providence





Resilient Rhody → **Municipal Resilience Program**



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Resilient Rhody:

- Resilient Rhody established key climate resilience focus areas
- 61 established goals
- Recognized need to support municipalities in prioritizing local resilience actions to further these goals

Municipal Resilience Program Development:

- MRP identifies and advances local priority resilience actions that support the 61 statewide goals
- Rhode Island Infrastructure Bank manages the MRP and Action Grants & The Nature Conservancy leads Community Resilience Building workshops
- Open to all 39 municipalities in RI

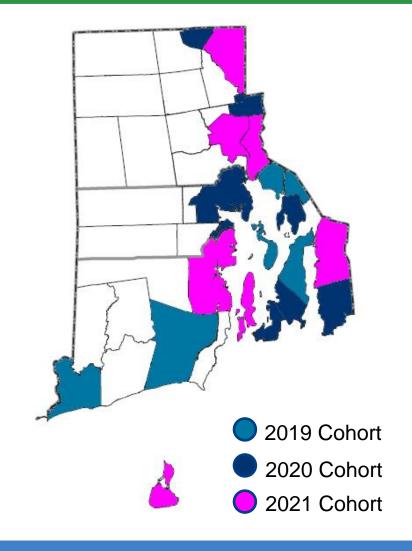
MRP Progress To Date

Projects Identified in Workshops:

- MRP 2019 → 5 municipalities; 52 Projects totaling
 ~\$14mm in need
- MRP 2020 → 8 municipalities; 151 Projects totaling
 ~\$80mm in need
- MRP 2021 → 7 municipalities; Number of Projects
 TBD

Projects Implemented:

- To date, RIIB has committed \$2.5mm in MRP Action
 Grant funding, covering 22 resilience projects
- The MRP has also catalyzed over \$6mm in external funding sources to support 8 MRP identified projects



MRP Progress To Date

Additional Program Funding:

- MRP received \$7mm from the 2021 Beaches,
 Clean Water and Green Economy Bond
- RIIB submitted a proposal for American Rescue
 Plan Act funds to further capitalize the program
- MRP received \$200k in funding to establish an Aquidneck Island Regional Resilience Coordinator position
- Awaiting response on two funding proposals to support program administration:
 - FEMA's Building Resilient Infrastructure and Communities (BRIC) program
 - National Fish and Wildlife Foundation's National Coastal Resilience Fund



Wetland restoration, Bristol



Melville Dam, Portsmouth



10/1/2021

Municipal Resilience Program - Vision

3 key areas of programmatic growth:

- 1. Expanding the MRP to all 39 municipalities (ex. increasing inland municipality engagement, increasing collaborative engagement between municipalities, etc.)
- 2. Expanding the breadth of technical assistance the MRP can offer (ex. including design & engineering assistance, identification of additional funding & financing sources, etc.)
- 3. Expanding local capacity for resilience building (ex. increasing staff & support for regional resilience efforts, providing training to existing staff as needed to increase local capacity, etc.)

Contact Information

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